Chemours HFC-23 and Greenhouse Gas Reduction Project

Air Pollution Control District

December 7, 2021



What are Hydrofluorocarbons (HFCs)?

- Hydrofluorocarbons (HFCs) are potent greenhouse gases (GHGs) intentionally developed as replacements for ozone-depleting substances (ODS) in the refrigeration, air conditioning, aerosols, fire suppression, and foam blowing sectors.
- They have global warming potentials (GWPs) (a measure of the relative climate impact of a GHG) that can be hundreds to thousands of times greater than carbon dioxide (CO2).
- HFC use is growing worldwide due to the phaseout of ODS and increasing use of refrigeration and air-conditioning equipment globally.

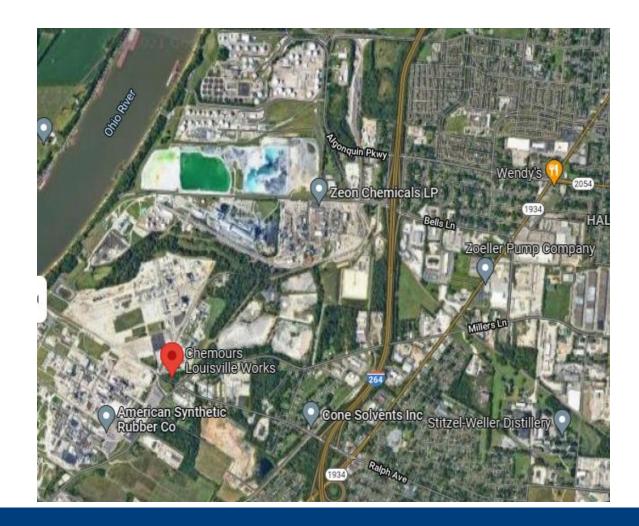


www.epa.gov/climate-hfcs-reduction

Chemours Louisville Works

Chemours manufactures refrigerant gases at its Louisville Works, including HCFC-22.

HFC-23 is produced as a by-product during HCFC-22 production.





Public Health Impacts of HFCs

As potent GHGs, the climate warming potential of HFCs is hundreds to thousands of times greater than the same amount of carbon dioxide. EPA is targeting HFCs because they exacerbate climate change and may lead to extreme weather events – and the corresponding public health threats, physical damage, and economic costs.

HFCs, including HCFC-22 and HFC-23, are not Hazardous Air Pollutants (HAPS) under the Clean Air Act or Toxic Air Contaminants (TACS) under the APCD's Strategic Toxic Air Reduction (STAR) Program.

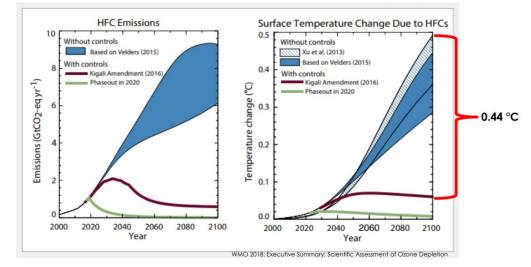


The American Innovation and Manufacturing Act

The American Innovation and Manufacturing (AIM) Act was enacted by Congress on December 27, 2020. The AIM Act directed EPA to address hydrofluorocarbons (HFCs) by:

- phasing down production and consumption by 85% over the next 15 years,
- maximizing reclamation and minimizing releases from equipment, and
- facilitating the transition to next-generation technologies through sector-based restrictions.

A global HFC phasedown is expected to avoid up to 0.5°C of global warming by 2100





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EPA's Phasedown and Allocation Rule

On May 19, 2021, EPA proposed, and on September 24, 2021, finalized the *Phasedown of Hydrofluorocarbons: Establishing the Allowance Allocation and Trading Program Under the American Innovation and Manufacturing Act* Rule, which

- Set HFC production and consumption baseline levels for reductions,
- Established allocation and trading HFC allowances for 2022 and 2023,
- Proposed an enhanced compliance and enforcement system, and
- Required companies that emit HFC-23 to either capture and
 - sell that HFC-23 for consumptive use as part of their allocation or
 - destroy the captured HFC-23 by incineration no later than October 1, 2022.





APCD's Proposed Permit

- Proposed Title V Construction Permit C-0062-0032-21-V
- <u>Statement of Basis</u>
- <u>Chemours Application</u>
- <u>Amended Public Notice</u>
- Initial Public Notice

Proposed Actions (APCD)

This page, also known as the APCD "docket," is where you will find proposed air pollution permits for large facilities, proposed regulations, proposed board orders, and other documents or actions that may be pending before the Louisville Metro Air Pollution Control Board ("Board") or being considered by the Louisville Metro Air Pollution Control District ("District"). See the **types of items** below.

Submit a Comment on a Proposed Action, Board Order, or Regulation		
Docket Proposed Action	Comment Period	Hearing Date
Proposed FEDOOP Operating Permit O-0415-21-F with Flynn Brothers Contracting, Inc; Statement of Basis; Public Notice	11/20/2021	Note 1
Notice of Public Comment Period and Hearing Public Notice Draft amendment to Regulation 1.06, Version 11, Stationary Source Self-Monitoring, Emissions Inventory Development, and Reporting; PRIA; Red Line Strike Out Draft amendment to Regulation 1.15, Version 21, Version of Federal Regulations Adopted and Incorporated by Reference; PRIA; Red Line Strike Out Draft amendment to Regulation 2.04, Version 8, Construction or Modification of Major Sources in ar Impocing upon Non-Attainment Areas (Emission Offset Requirements); PRIA; Red Line Strike Out Draft amendment to Regulation 2.17, Version 5, Federally Enforceable District Origin Operating Permits; PRIA; Red Line Strike Out	11/19/2021 01/14/2021	01/19/2021
Proposed FEDOOP Operating Permit O-0150-21-F with Riverside Paving and Contracting, Inc; Statement of Basis; Public Notice	11/17/2021 - 12/20/2021	Note 1
Proposed Title V Construction Permit C-0062-0032-21-V with The Chemours Company FC, LLC; Statement of Basis; Amended Public Notice; Permit Application Original Public Notice	11/14/2021	Note 1
Proposed Amended Board Order 21-01 with Louisville and Jefferson County Metropolitan Sewer District (MSD); Public Notice	11/10/2021 - 11/17/2021	11/17/2021 10:00 a.m.
Proposed PAL Construction Permit C-0072-0046-21-V with Ford Motor Company - Louisville Assembly Plant; Statement of Basis; Public Notice	11/04/2021	Note 1
Proposed FEDOOP Operating Permit O-1568-21-F with NHK Spring Precision of America, Inc; Statement of Basis; Public Notice	10/07/2021 - 11/08/2021	Note 1



louisvilleky.gov/government/air-pollution-control-district/services/proposed-actionsapcd

Public Comments

The 30-day public comment period started on November 14, 2021, and currently ends on December 14, 2021.

- Drafts of the permit and summary are available at APCD's office, 701 West Ormsby Avenue, Suite 303, Louisville, KY 40203, between 8:00 a.m. and 5:00 p.m., Monday through Friday,
- by calling Matt King at (502) 574-6000,
- emailing our permitting department, or
- at the following website: http://www.louisvilleky.gov/APCD/docket.
- A copy of the application is also available on our website.

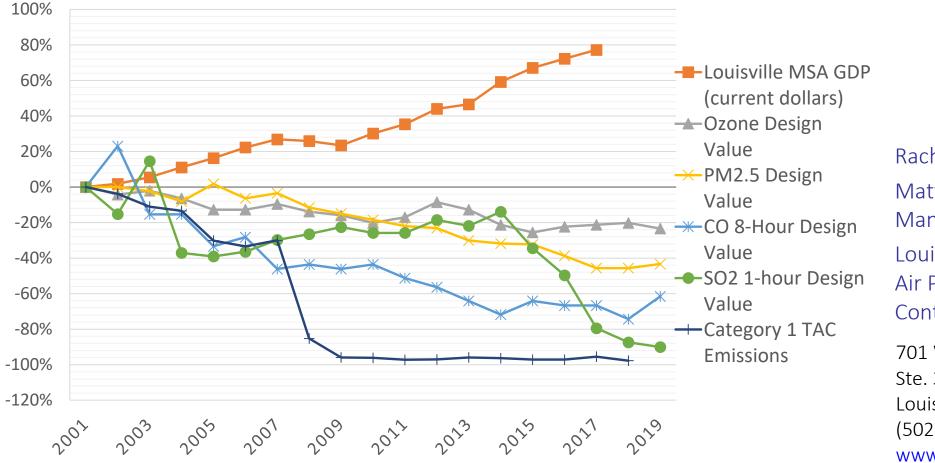
Written comments will be accepted through our online comment form until midnight or at APCD's office until 5:00 p.m. on December 14, 2021.

A public hearing may be scheduled if APCD determines that there are germane, unresolved issues or substantial public interest, in accordance with Regulation 2.07





Questions?



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Louisville, KY 40203 (502) 574-6000 www.louisvilleky.gov/APCD



EPA's Phasedown of Hydrofluorocarbons Rule Resources

- Federal Register link to the Final Rule
- <u>View the press release here</u>
- See Docket ID number EPA-HQ-OAR-2021-0044 at http://www.regulations.gov for supporting documents and submitted public comments.
- <u>Draft Regulatory Impact Analysis for Phasing Down Production and Consumption of</u> <u>Hydrofluorocarbons (HFCs) (PDF)</u>(174 pp, 2 MB)
- EPA's slideshow on the American Innovation and Manufacturing Act

